

The Aastra 400 Sales Guide



AASTRA

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Introduction

Professional and efficient communication is an important factor for all business processes and can play a key role in the success of a company. This may sound simple yet it is often difficult to implement due to the wide variety of communications tools available today including phones, e-mail, chat and social media.

This raises a lot of questions as to which tools can be used to support existing processes. Can new solutions be used to simplify and speed up processes? How do all these media work together? Can they be integrated into the existing IT infrastructure? And above all are they flexible enough to cope with ever faster technological changes?

Only those businesses that ask themselves these questions will stay ahead of the competition. With efficient business processes, they can react to the increasingly more complex requirements. Others can expect to deal with increased customer churn and a potential fall in turnover.

Today, it is no longer enough to provide isolated applications for internal or external communications. Communication tools must be smartly combined and work together as one.

Unified & Collaborative Communications (UCC) is generally accepted as the way forward. It is all about standardised communication and collaboration for which the use of individual communication tools is well-suited. For instance using a common phone book for office phones, mobile phones, video conferences and e-mail. This saves time, because addresses and phone numbers can be managed at one point and not separately on each device.

The Aastra 400 series contains a comprehensive UCC solution, which is market leading due to its wide range of business-oriented functions. Reliability and easy, intuitive operation are therefore guaranteed. A key question before procuring a UCC solution is the cost and the inherent amortisation. These new and modern UCC applications not only improve the quality and efficiency of communication, in many cases they also lead to considerable cost-savings.

Aastra is focussed on open global standards such as Session Initiation Protocol (SIP). This makes the communication system easy to connect to the public network via a service provider and also facilitates system networking and the integration of customers' existing IT infrastructures.

Apart from flexibility, another major advantage of SIP-based solutions is investment sustainability. Customers are not dependent on a single manufacturer, but can complete their communication solution with applications from other manufacturers if necessary.

For more than a decade, small and medium-sized businesses have been successfully using Aastra unified communications solutions. Thanks to continuous upgrades, our customers enjoy high investment protection and can successfully maintain their market share.

Voice over IP as a Basis for Unified & Collaborative Communications

The Voice over Internet Protocol (VoIP) technology is the basis for UCC and has many advantages over traditional telephony. These include operating and maintenance cost-savings as well as high levels of flexibility.

Highly available bandwidths and huge technological advancements are encouraging ever increasing deployment in all areas of communication. At the same time, speech quality today is so good that your calling party is no longer able to distinguish whether you are in the office, around the corner, at an airport or on the other side of the world.



The Advantages of VoIP at a Glance:

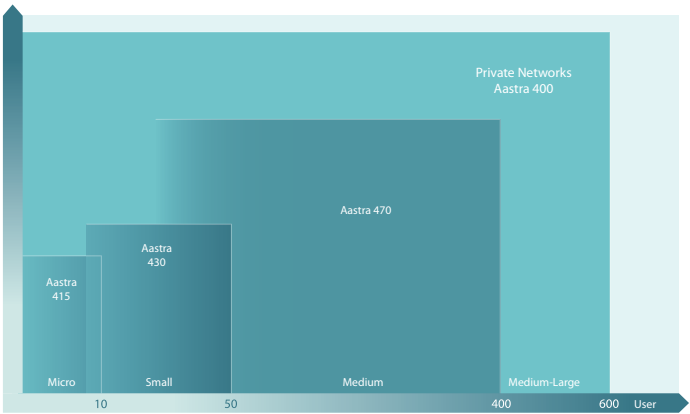
- ✧ Flexibility: wherever there is an Internet connection, a functional communication infrastructure can be set up quickly at a relatively low cost
- ✧ Network system: different company locations between which data connections already exists can be networked seamlessly. This applies to both home and remote workstations
- ✧ Expandable infrastructure: additional system phones and mobility solutions incorporating mobile phones and other components e.g. applications can be integrated without additional cabling. Likewise, more locations can be integrated effortlessly into the network
- ✧ Free internal calls: the usual call costs do not apply to any communication device integrated into the company IP network

The Comprehensive Product Portfolio from Aastra Consists of:

- ✧ IP communication systems
- ✧ IP system terminals
- ✧ Softphones
- ✧ SIP phones
- ✧ Mobility solutions, including mobile terminals based on SIP, DECT, WLAN and mobile phone integration
- ✧ User-specific applications, e.g. Computer Telephony Integration (CTI), Unified Communications (UC) and Unified Messaging

Business Communication Systems

Positioning – Average Expansion Capacities



Aastra 415

2 to 12 users
2 expansion slots

Aastra 430

6 to 50 users (digitally 20)
4 expansion slots

Aastra 470

20 to 400 users
7 expansion slots, one of which can be used
for the integrated application server

A network of up to 600 users and 40 systems or sites will have access to the full range of services.

The Advantages: Open, Powerful, Flexible

Benefits

- ✧ The same software for all Aastra 400 communication servers:
 - The same services offer
 - The same ergonomics
 - The same applications
 - The same terminals
- ✧ Extensive terminal offer
- ✧ VoIP-based systems
- ✧ Openness and investment protection thanks to the use of standard interfaces and protocols
- ✧ Integrated voicemail system
- ✧ Numerous expansion possibilities
- ✧ Easy installation and management



Aastra 415



Aastra 470



Aastra 430



Private Networking

Summary Table

Basic Configuration Aastra 400	415	430
Slots for expansion cards	2	4
Interfaces for system terminals	2	4
Interfaces for analogue terminals	2	2
LAN system interfaces	2	2
IP Media Gateway	integrated	integrated
Voicemail system	integrated	integrated
DECT mobile solution	integrated	integrated
Fixed Mobile Convergence (FMC)	integrated	integrated
Auto attendant	integrated	integrated
Application server	external	external
VoIP data security (supported standard protocols): SRTP, TLS, AES, HTTPS	integrated	integrated
Mounting options	wall/19" rack	wall/19" rack

470	
	6+1
	–
	4
	3
	integrated
	integrated
	integrated
	integrated
	integrated
	integrated or external
	integrated
	19" rack

Maximum Configuration Aastra 400	415	430
Aastra IP terminals	12	50
SIP phones	10	50
Digital Aastra system terminals (1 for each interface)	10	20
Analogue terminals FXS	10	18
Aastra DECT handsets	10	50
DECT radio cells 4/8 channels	10/5	20/10
GSM subscribers	20	100
WLAN terminals	10	50
SIP-Trunk simultaneous channels	16	32
ISDN trunk interfaces BRI (2B channels)	4	8
ISDN trunk interfaces PRI (30B channels)	2	4
Analogue trunk interfaces FXO	4	8

	470	AIN with 470 Master
	400	600
	400	400
	400	600
	116	600
	400	600
	224/112	255/255
	255	255
	400	400
	240	240
	56	64
	14	32
	56*	64*

** available as from release 2.0*

Aastra 400 Benefits and Options

- ✧ Future-oriented, VoIP based communication server
- ✧ Suitable for all business types due to its high adaptability
- ✧ Modular architecture with step-by-step-expansion
- ✧ Optimum deployment and a business-oriented terminal range (IP and digital) with intuitive user interface
- ✧ Powerful, IP-based softphone for PC telephony
- ✧ Wide range of convenient, team and presence-management functions to improve your activities
- ✧ UCC solution, including CTI, video conference, chat and desktop-sharing, with Aastra 470 without the need for an external PC
- ✧ Link to external directories/contact databases e.g. Microsoft Exchange, Microsoft Outlook, telephone book CD
- ✧ CTI functions: name selection, clip display, Microsoft Outlook calendar notification on system terminals
- ✧ Fully integrated cordless phones (DECT and SIP-DECT) for accessibility and mobility everywhere in the company
- ✧ Integration of external terminals e.g. GSM / UMTS mobile phones as external users (FMC)
- ✧ Aastra Mobile Client (AMC) offers menu-driven operation of system functions for integrated mobile phones
- ✧ Integration of SIP-capable WLAN (wireless LAN) mobile phones
- ✧ One Number functionality for users with multiple terminals
- ✧ Easy accessibility control through personal profiles for call routing
- ✧ Integrated SIP protocol for connecting to public networks via service providers as well as for connecting SIP terminals and SIP-based applications

- ✧ Flexible integration of a wide range of third-party applications via standardised interfaces (SIP, XML, TAPI, Corba)
- ✧ Integrated voicemail in the basic features of each system
- ✧ Integrated automatic call switching (auto attendant)
- ✧ Alarm solution e.g. in a factory or manufacturing environment
- ✧ Integration with building management via standard KNX protocol
- ✧ Transparent networking for up to 40 systems or sites
- ✧ Integrated remote maintenance/remote alarm system



Standard Functions of the Aastra 400

Basic Functions	• Emergency call • Name dialling • Number and caller's name display • Direct Dialling In • Programmable keys for number functions and team members • Suppression of the call number • Display of calls on hold
Extended Functions	• Enquiry call, brokering, switching, conference • Call forwarding (predefined, arbitrary) • Callback if user busy/free • User groups • Team switching • Presence display • Free seating/Hot desking • Day, night and weekend service
Presence and One Number	• Presence management • One Number per user with up to 16 terminals • Presence display, with MS Exchange calendar integration
Exchange	• Operator console and PC operator • Enhanced call distribution • Group functionality
Mobility and Security	• Personal user profiles and call routing • User authorisations management • Integrated DECT, SIP-DECT and WLAN mobility solution • DECT language encryption • FMC with Aastra Mobile Client • User authorisation management
Applications	• Integrated voicemail system with automated attendant functions • Comprehensive CTI function • Automatic Call Distribution (ACD), call charging, call logging • TAPI interfaces for integrating third-party applications • Hotel interface, check-in/check-out

Networking	• Transparent networking using VoIP (AIN) • SIP networking • QSIG networking via dedicated lines or IP data network • Signalling via SIP, QSIG, PSTN or analogue lines • Virtual networking via ISDN (DSS1) • Least Cost Routing • Flexible and homogeneous numbering plan
Quality of Service (QoS)	• Diffserv, 802.1Q/P: VLAN tagging and QoS • PSTN overflow by interruptions or bottlenecks in the IP network
Information and Management System	• Integrated web-based administration • Incoming/outgoing call logging • SNMP signalling • Remote maintenance (configuration, monitoring, alarming, loading new system software)

A Powerful System

The Aastra 400 opens the full performance spectrum of modern business communication: call diversion, team switching, user groups and manager/secretary functions facilitate team work.

Practical additional functions like Least Cost Routing (LCR) or call cost recording (for caller-oriented billing of calls made on personal or third-party telephone terminals) facilitate cost management and create more transparency. Call-barring or access-restriction functions are also available as additional cost-saving tools.

Computer Telephony Integration (CTI)

Today, the requirements regarding the integration capability of a communication system are as diverse as they are numerous. In a networked system, the entire information flow and with it the productivity within a company can be greatly improved.

Aastra develops and markets powerful CTI applications and provides certified as well as tried and tested software applications, through a partner programme.

For both simple and demanding applications in CTI certification guarantees uncomplicated and secure commissioning. This means quicker access, high efficiency and guaranteed reliability.

Open standards and innovation facilitate communication and offer direct access to a wider range of telephony functions from any workstation. This enhances the performance and reliability of CTI applications, regardless of whether the customer opts for a server-based solution or a client PC-based installation variant.

The Aastra 400 intelligently supports call centre solutions. Typical functions such as logging on or call wrap up are integrated into the system and are easy to use by extension users and agents. The emergency routing integrated within the system increases the availability of the overall solution even more.

Example: Aastra OfficeSuite

Aastra OfficeSuite is the ideal tool for all environments in which telephony plays a key role. It is perfectly suited to secretaries, receptionists or employees who handle a large number of calls everyday. Aastra OfficeSuite gives an overview of operations and supports efficient processing and control of all calls as well as information via the PC.

Uncluttered User Interfaces

The user interface is so clearly structured that even users with no prior knowledge find it easy to use and a tool that becomes invaluable.



Overview of the Main Application Windows:

✧ **Call Manager:**

- The main control element for making, answering and ending calls
- Defining the presence status
- Direct access to the redial list, call diversion, logbook and phone book

✧ **Presence Indicator:**

- The current phone and presence status of other users are instantly displayed using a colour-coded icon
- Synchronisation with Microsoft Exchange Server is available as an option, which means that the presence status and/or presence profile are matched in real time with Microsoft Outlook

✧ **Phone Book:**

- Stores all the available address books and personal contacts
- User-friendly search and sort functions locating users quickly
- The optional integration with Microsoft Exchange allows you to transfer all the contact data directly from Outlook to the phone book

✧ **Logbook**

- Lists all incoming calls at a glance
- Text messages, voice and fax messages
- A notepad for making your own entries

All it takes is a single click to activate the presence profile you want, complete with individual telephony settings (presence status, call forwarding, notifications, alarm and ring tones) for meetings, business or holiday trips.



The Aastra OfficeSuite has Lots More to Offer:

- ✧ Calls can be taken and ended via freely configurable key combinations on the computer
- ✧ Calls can be directly initiated from an application e.g. web page or text document

Fixed Mobile Convergence (FMC)

FMC is opening up new opportunities to meet the growing communication needs of companies, especially in terms of mobility. New features such as the integration of GSM, UMTS and WLAN mobile terminals in the internal communication network, and innovative features like Aastra One Number highlight the benefits of FMC.

Guaranteed communication is also essential away from the office, i.e. on business trips or during customer visits. Aastra has this scenario covered too. Besides the integration of mobile phones into the communication network, Aastra softphones also provide mobile communications. Therefore no one has to do without their telephony functionality – everything is available in the usual way.

The use of mobile phones with dual mode (GSM, WLAN) has proved particularly user-friendly and cost-efficient. It means that phone calls are possible on the radio network, in WLAN areas in hotels, airport lounges and other public locations. The advantage of this is that purely IP-based calls are free and connections to the public telephone network are usually much cheaper than via mobile phones, with immense benefits particularly when making international calls.



Company Mobility

With fully integrated solutions from Aastra, mobile phones can be incorporated into an existing communication system.

Even outside the company premises, the communication system features (conference call, call brokering and call transfer, etc.) are available to users.

One Number

The One Number solution from Aastra allows several terminals (e.g. fixed, DECT, and mobile phones), registered with the Aastra 400 communication system, to use one number for all calls.

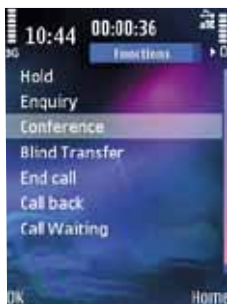
No matter which handset the user has they are always contactable by colleagues and customers via the same number. Changes to the phone book and call list are immediately updated on all the handsets.

Aastra Mobile Client (AMC)

AMC makes integrating a GSM mobile phone even easier.

The specially designed, user-friendly interface gives quick access to the Aastra 400 features and functions. Answering incoming calls, ring backs and teleconferencing can be controlled with ease at any time using AMC. With the personal availability profile, users can determine which handset they wish to be reached on and switch simply via the AMC menu.

The functions are activated directly on the mobile phone and fully integrated using the software. This option is available on selected GSM phones and smartphones.



Unified & Collaborative Communications (UCC)

Today, UCC is the measure of all things in terms of modern communication. At Aastra, UCC means that various media, such as e-mail, fax, video and telephony are deployed together as a solution package.

The Benefits of Aastra 400 UCC Solution

✧ Efficiency Enhancements

- The same operating solution for different communication tools such as phone, video conference, chat. This not only saves processing time, but also facilitates day-to-day work
- Need-oriented communication: some communication tools are more suitable than others, depending on whether the response required is immediate or not. E-mail is ideal for time-delayed communication. The same applies to chats, but here an earlier reply is expected. Video telephony, on the other hand, is real-time communication
- Better accessibility inside and outside the office, by integrating mobility solutions into the UCC application
- The Aastra 400 presence-management functions intelligently combine an employees presence status with his telephone status. This way, it can be seen at a glance whether to call the employee now or to wait until later. They also enable a caller to decide whether another communication tool is more suitable
- The Aastra UCC solution, with its customer-oriented functions, considerably enhances and facilitates business communication

✧ Improved Costs

- Using a common infrastructure saves the cost of maintaining and running two separate networks
- In many cases, video conferences and desktop-sharing can be used instead of expensive business trips. A further advantage is that video conferences require less planning than, for instance, travel by air or by train and can be organised at short notice
- A special feature of the Aastra 470 is that UCC can easily be made available: via an optional application map with software already installed. This removes the need for complicated integration of a separate application server into the company's IT network



Telephony Web Portal

The Aastra 400 offers with the Telephony Web Portal (TWP) a UCC application which contains a wide range of multimedia services.

Apart from call functions, e-mail, SMS and chat can also be used. Video-conference and desktop-sharing functions are available too. The solution offers a wide range of team work options, including presence indicator and abbreviated dialling. The application has a modular structure and allows individual solutions to be put together.

Installation and administration costs are clearly minimised due to a centralised and web-based architecture.

The Advantages:

- ✧ All functions are available through the web technology including call control, terminal feature settings, call pop-ups and phone book integration
- ✧ Integration into the company's existing information system including databases, XML, web server and specialised applications
- ✧ Very easy to use on different systems (Windows or Linux PC, Mac, PDA, mobile phone, tablet PC, etc.), due to browser technology
- ✧ Multi-company deployment with separate domains, users and phone books

- ✧ Extensive application offerings including click to call, pop-up, conferences, video, chat and statistics
- ✧ Centralised, easy management and maintenance, even with the workstation PCs off

TWP Caller

TWP Caller is a CTI module which facilitates PC-based telephony management and interaction with colleagues and between team members.

TWP Caller enables:

- ✧ Application-wide dial aid – click to call, drag & drop or copy/call, normalise call numbers with the clean-up function
- ✧ Incoming and outgoing call management including e-mail notification about missed calls
- ✧ Call log – contact search in various, integrated external data sources
- ✧ Presence information

TWP Alerter: Call ID (pop-up) Window and Process Integrated Communication

TWP Alerter is an expanded-system-integration module which opens a pop-up window during incoming and outgoing calls. This enables:

- ✧ Call identification, including search function in all TWP compatible directories
- ✧ Adjustable pop-up map (HTML/PHP) with contact picture linked to contact information
- ✧ Contact related functions: Add note, send e-mail or SMS, chat, etc.
- ✧ Semi-automatic integration of CRM/ERP applications in order to open contact details

TWP AudioShare: Queues and Conference with Several Participants

TWP AudioShare is a system module for two expanded audio functions:

Simple Queue:

- ✧ Calls are taken or answered manually from the queue
- ✧ Callers are identified and customer fields displayed on the queue

Audio Conferences:

- ✧ Set up adhoc conferences from TWP Caller
- ✧ Add internal or external subscribers from contacts in TWP compatible directories
- ✧ Manage conferences with up to ten participants i.e. mute, exclude participants

TWP Rules: Extended Call Routing

TWP Rules is a system module for the individual control of call routing and enables the user to:

- ✧ Define individual rules for expanded call routing
- ✧ Route incoming calls to predefined destinations manually or based on presence status (TWP or calendar)
- ✧ Complete rules with filters – time-based control, “white and black lists” based on call number, name or contact lists
- ✧ Play back personal greeting messages before diverting calls

TWP VideoShare: Multimedia Conference with Several Participants

TWP VideoShare is a module for setting up video connections and conferences. It is used to:

- ✧ Set up adhoc multimedia conferences with up to ten participants, from TWP Caller
- ✧ The conference initiator can add participants from his TWP contacts
- ✧ The TWP user can enable and disable media (audio, video, desktop release, common desktop, remote access) individually. The conference initiator retains control muting, excluding participants

TWP Recorder: Recording Conversations

TWP Recorder is a system module with the following functions:

- ✧ Manual or automatic recording based on predefined rules
- ✧ Access to recording via a web interface or by calling back on any telephone
- ✧ Supervisor access to groups or user recordings
- ✧ Transmission of recordings by e-mail – streaming or as attachment



TWP Mail: A Simple Voicemail Solution

TWP Mail is a system module with its own voicemail solution. It enables the user to:

- ✧ Record personal greeting messages
- ✧ Display voicemail messages
- ✧ Listen to voicemails on his own terminals
- ✧ Receive e-mail notifications
- ✧ Listen to and manage personal voicemail messages through a personal TWP Caller window
- ✧ Synchronise the playback status
- ✧ Listen to voicemails on the PC or by calling back on any telephone

TWP @Messaging: A Simple Voicemail Solution and Expanded Call Routing

TWP @Messaging is an independent application which enables the TWP user to manage his voicemail and perform expanded call routing.

TWP Stats: Personal Call and Group Statistics

TWP Stats is a TWP Caller system module that gives the user access to call statistics via a web interface:

- ✧ Daily, monthly, and yearly statistics
- ✧ Filtering according to correspondent type, incoming and outgoing calls both internally and externally
- ✧ Exporting statistics as csv data

TWP Toolkit

TWP Toolkit is a standard toolbox used to integrate TWP into external applications. It is used to set up click-to-call functions on web pages up to the dedicated web/telephony applications.

Communication Cost Management

How to Control Your Company's Communication Costs?

✧ **Choose Network Access:**

- Limit access according to employee categories
- Block international and national call numbers
- Limit access for specific numbers: create a list of barred numbers or area codes
- Limit access for specific times for example outside office hours

✧ **Make Users Aware of Communication Costs and Duration:**

- The terminals can measure the charge information about a call
- The terminals display the duration and costs during or at the end of the call
- Least Cost Routing (LCR) – choose the least cost network provider according to place and time

✧ **Lock Function:**

- The phone can be locked with a personal PIN code

✧ **Cost Centres:**

- The user can assign the call costs to a cost centre by entering a specific code
- This function is particularly suitable for those companies working for third-party companies or wishing to calculate costs for individual customers

Networking: The Same Performance, No Matter what the Location

Networked Aastra 400 systems provide employees with convenient functionality: enquiry call, call switching or callback which all work perfectly, even if the users are not in the same building.

It is also possible to set up user groups with users from different locations and to connect the phones directly to the Aastra 400 system via the existing IP based Intranet. This way even smaller company locations and homeworkers can benefit from cost effective functions.



Terminals

The Aastra 5300/5300ip Series: Digital and IP Phones

The concept of the Aastra system handset family is based on different functionality levels. The Aastra 5300 system handset series are available both as IP and digital versions.

Aastra 5361/5361ip



Aastra 5370/5370ip



Aastra 5380/5380ip



Aastra 5361/5361ip

The convenient standard scope of the Aastra 5361/5361ip are designed to optimally address the various needs of modern business communications.

The clear display, numerous pre-programmed and easily configurable function keys, as well as user-friendly operation via the integrated navigation key and "Fox" key are first-rate. A single key press suffices to list entries in the repeat dialing list or the personal telephone book. The Aastra 5361/5361ip are easily wall-mountable therefore ideal for use as an information telephone in a waiting room or service area.

Aastra 5370/5370ip

The Aastra 5370/5370ip, which has the highest level of functionality in its price class, stands out because of the intuitive operator guidance and outstanding speech quality. Integrated phone book, hands-free operation and conference calls are just some of the features available.

With the integrated (DHSg-standard) headset connector, important call functions, volume adjustment, take and end call, can be used directly via the headset.

Aastra 5380/5380ip

The Aastra 5380/5380ip fit elegantly into any working environment satisfying the highest demands placed on modern telephony and are ideally suited to increasing communications efficiency.

Expandable with up to 3 additional key modules, each with 15 or 20 freely-configurable keys, and with a large-area alphanumeric key module, highly efficient operation is assured.

When used together with a headset, the Aastra 5380/5380ip are also ideal for telephony workstations. This includes switching system or call centre environments. The phones can also be expanded with a Bluetooth module. Combined with a wireless headset this allows you to easily take and end calls straight from the headset.



*Expansion Keypad Modules
Aastra M530 and M5355*

Expansion Key Modules

With expansion keypad modules, numerous call numbers and/or system functions can be freely stored on keys. Two types of expansion keypad modules can be used for for the Aastra 5370/5370ip and Aastra 5380/5380ip.

The expansion keypad module M530 with labelling strips comprises of 20 freely configurable keys, each with two storage areas.

The expansion keypad module M535 with digital display and backlit background has 15 keys, on which functions can be stored on three levels.



Aastra 5380 Operator



Aastra 5380 Operator

The Aastra 5380 Operator offers call management functions needed by both small and medium-sized enterprises.

The Aastra 5380 Operator can be intuitively deployed based on the Aastra 5380 or the Aastra 5380ip together with the display-based M535 expansion module.

Details and an overview of incoming calls are given on the expansion keypad module display. Additional information, such as name (if known), call number and time, can be called up over two sub-levels. Once the call is taken, all caller related details are displayed on the wide telephone display. Up to ten operator lines can be programmed.

Hardware Features

Wall mounting

Headset socket

Bluetooth

Display and Control Systems

Display

Backlighting

Indicator LED

Programmable hard keys

Fixed function keys

Configurable keys (Softkeys)

Alpha keyboard

Features

Call preparation

Name dialling

Open listening

Full-duplex speakerphone

Transfer

Conference

Call forwarding

Voicemail

Send/receive text messages

Access to central phone book

Entries in private telephone directory

Last number redial list

(Unanswered/answered) call list

Expansion Key Modules

M530/M535

Networks, Configuration and Management

Switched Ethernet ports

Power over Ethernet 802.3AF

Codec G729A – G711 μ -law/A-law

Diffserv, 802.1Q/P: VLAN tagging and QoS

802.1x

NAT support

SRTP, TLS

5361ip/5361	5370ip/5370	5380ip/5380	5380 Operator
•	•	•	•
	DHSG	DHSG	DHSG
		• (optional)	• (optional)
1x16 characters	5x22 characters	7x34 characters	7x34 characters
		•	•
2	2	2	2
10 (LED)	12 (LED)	0	0
10	10	10	10
0	0	0	0
		•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
350	350	350	350
4	10	10	10
4/4	10/10	10/10	10/10
0	1	3	2
–	10/100 Mbps	10/100 Mbps	10/100 Mbps
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•

SIP and the Aastra 400

SIP: A Key Technology in the Convergence of Voice and Data

In addition to the high-performance Aastra system terminals you can also connect SIP terminals from Aastra or other manufacturers to the communication servers.

Aastra SIP terminals, which feature an elegant design, hands-free function, conference circuit and a headset socket, also support the state-of-the-art XML standard.

This allows individual information services to be directly presented on the generous display.

SIP Standard-compliant WLAN and Dual Mode (GSM/WLAN) phones, connected to the company communication system via WLAN, can also be used.

Using Video Telephony via the Data Network:

With modern SIP technology, customers see the person they are talking to live through video telephony, in high-resolution quality.



Aastra 6700i SIP Phones

As a leading manufacturer, Aastra has taken up the challenges of the market in terms of open standards. The experience gained from decades of voice and data-oriented development efforts has influenced the development of our mainly SIP-based products.

The Aastra 6700i-series SIP phones, with an appealing design, offer all the features needed to communicate today.

All Aastra 6700i SIP phones are XML-browser compatible and offer the possibility to considerably extend the features defined in the SIP. Moreover, the customer-specific services and applications required for business processes can be used. There are almost unlimited possibilities to customise the phones and integrate customer-specific applications and services into the display.

The operation can be optimally adapted to individual needs, since the keypad layout can be arranged individually.

The Aastra 6750i, Aastra 6731i and Aastra 6739i phones have an integrated switch for direct connection to the workstation PC and can be powered via the network using Power-over-Ethernet.



Aastra M670i



Aastra M675i



Aastra 6730i



Aastra 6753i



Aastra 6731i



Aastra 6755i



Aastra 6757i



Aastra 6739i

Hardware Features

Wall mounting	•
Headset socket	-
Bluetooth	

Display and Control Systems

Display	3x16 characters
Backlighting	
Indicator LED	1
Programmable hard keys	8
Fixed function keys	10
Configurable keys (Softkeys)	0

Features

Multi-line (number of lines)	6
Call preparation	•
Name dialling	•
Open listening	•
Full-duplex speakerphone	•
Transfer	•
Conference	•
Call forwarding	•
Voicemail	•
Access to central phone book	•
Entries in private telephone directory	200
Last number redial list	100
Call list	200

Expansion Key Modules

M670i	0
M675i	0

Networks, Configuration and Management

Switched Ethernet ports	–
Power over Ethernet 802.3AF	•
Codec G729A – G711 μ -law/A-law	•
Diffserv, 802.1Q/P: VLAN tagging and QoS	•
802.1x	•
NAT support	•
SRTP, TLS	•
LLDP-MED	•

(1) DHSG headset via Y cable

(2) Multi-colour touchscreen

(3) Programmable softkeys on the display

	6731i	6753i	6755i	6757i	6739i
	•	•	•	•	•
	-	•(1)	•(1)	•(1)	DHSG
					•
	3x16 characters	3x16 characters	144x75 pixels	144x128 pixels	640x480 pixels (2)
		•	•	•	
	1	1	1	1	1
	8	6 (LED)	6 (LED)	0	0
	10	8	8	8	14
	0	0	6 (LED)	12 (LED)	55(3)
	6	9	9	9	9
	•	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•
	200	200	200	200	200
	100	100	100	100	100
	200	200	200	200	200
	0	3	3	3	3
	0	0	3	3	3
	10/100 Mbps	10/100 Mbps	10/100 Mbps	10/100 Mbps	10/100/ 1000 Mbps
	•	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•



The Aastra 2380ip Softphone

PC Based Telephony

With its Aastra system-terminal-based functions, the Aastra 2380ip offers full convenience, providing all the important telephone functions on a PC. Operation is via mouse and keyboard inputs. To make and receive calls, all that is required is a headset (USB, cordless, Bluetooth) connected to the PC. All the important functions, such as call log and telephone book, are available at the click of the mouse. The Softphone offers all logical and possible options during a call, including conference, forwarding and enquiry call.

Office 1560/1560IP PC Operator Console

Centralised Overview

Taking, making or forwarding calls is simple with the Office 1560 connection point. A PC phone is already integrated into the Office 1560IP version. The Office 1560 variant is deployed together with an Aastra 5300 system phone or Aastra 600d DECT handset.

On the PC monitor, the user can see at a glance who is calling, who is internally busy or absent or who has enabled the forwarding function on his phone. When several calls are waiting, the most important one can be chosen. If a subscriber is busy, the representative's number can be dialled, a text message left on the phone or an e-mail sent.

Additional calendar information is available for call forwarding, thanks to integration into Microsoft Exchange. This absence information supports yet more customer-friendly service.



DECT and SIP-DECT Base Stations

Integrated DECT Solution

The most important features available with the DECT solution:

- ✧ Number and caller's name display
- ✧ Integration into a user group
- ✧ Access to the central telephone directory
- ✧ Access to integrated voicemail
- ✧ DECT handover for uninterrupted call handover between DECT base stations
- ✧ Seamless integration into the One Number concept
- ✧ Twin mode: calls to the desktop telephone are automatically diverted to the DECT terminal once it is away from the charging bay
- ✧ All features of the system terminals
- ✧ Alarming and messaging solutions

Two DECT Base Stations are Available:

- ✧ SB4+ base stations with 4 channels
- ✧ SB8 base stations with 8 channels

SIP-DECT Base Stations

Aastra SIP-DECT, together with the Aastra 600d terminals, offer a modern and flexible solution. This allows, among others, the deployment of remote IP base stations.

Advantages of the SIP-DECT Solution

- ✧ Excellent speech quality and high data throughput
- ✧ Use of mobile voice and data communication on the same network
- ✧ Less cabling work thanks to the use of the IT infrastructure
- ✧ The same installation, equipment, operation and system-maintenance concept
- ✧ Create a network between sites at a moderate cost
- ✧ Expansion to existing networks
- ✧ Protection against unauthorised access including HTTPS-support, password protection, special user accounts

Architecture of the SIP-DECT Solution

The SIP-DECT solution is based on the following components:

- ✧ Indoor base station RFP 32 IP/RFP L32 IP
- ✧ Outdoor base station RFP 34 IP/RFP L34 IP
- ✧ Hybrid base station RFP 42wlan/RFP L42wlan
- ✧ DECT terminals Aastra 610d, Aastra 620d, Aastra 630d
- ✧ OpenMobilityManager (OMM) controls and manages all RFPs of the multi-cellular DECT network. Central administration of the DECT and WLAN radio network is through a browser interface

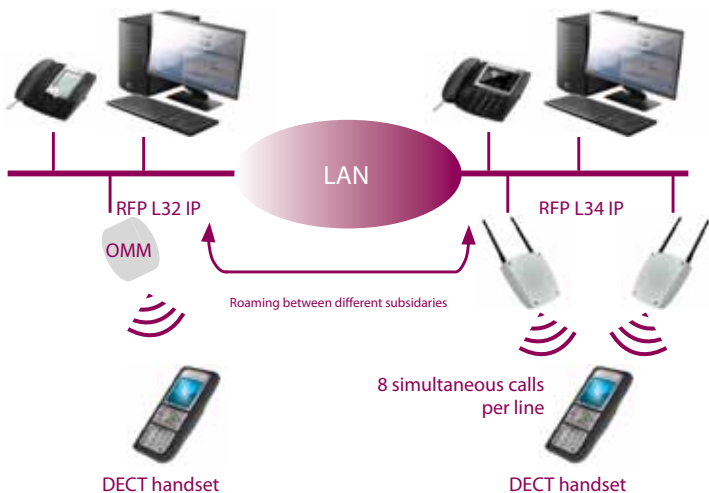




The Following Points Apply to Each Configuration:

- ✧ Each DECT terminal is configured as SIP user in the system
- ✧ Each DECT terminal is registered with OpenMobilityManager (OMM)

Open Mobility: The SIP-DECT Solution



Capacity and Dimensions:

- ✧ Up to 512 handsets
- ✧ Up to 256 RFP base stations
- ✧ Up to 100 simultaneous calls per OMM

Characteristics of the RFPs

- ✧ The RFP base stations are connected directly to the LAN and use state-of-the-art DECT technology for radio transmission
- ✧ Seamless handover is necessary to synchronise all the RFPs on the network
- ✧ Synchronisation is over the air

DECT Handsets

Unrestricted and noise free mobility without loss of quality is a key issue in modern telecommunications. The Aastra 400 series of DECT handsets consistently meet the demands of modern mobile voice transmission.

They feature all the services offered by desk phones plus other functions like discreet call or hands-free operation. As soon as the DECT phone is removed from its charging bay, the intelligent Twin Comfort function automatically diverts calls from the desktop phone to the cordless handset, enabling the user to take all his personal data such as lists of answered calls and phone-book entries.

The Aastra 600d Range

The Aastra 600d range handsets are well-suited for collaboration with the Aastra 400 system. The fully integrated mobile phones provide all the services offered by normal desk phones. With the Aastra 600d series of DECT terminals, users still enjoy the convenience and ease of use offered by the popular Foxkey principle.

When combined with Aastra SIP-DECT solutions, it also offers users the advantages of VoIP technology.*

Aastra 610d: The Basic Model with Style

The Aastra 610d manages up to 350 contacts, each with 3 entries in the phone book.

With the illuminated, monochrome 2" display it guarantees an optimum overview and simple operation of the menu at all times.



Aastra 620d: The Convenient High-End Telephone

The Aastra 620d is ideal for professional use.

The large thin film transistor (TFT) colour screen ensures excellent graphic displays. Easy navigation is aided by numerous freely programmable keys.

Equipped with a Bluetooth interface for a cordless headset, the Aastra 620d allows maximum freedom of movement.



Aastra 630d: The Indestructible Model for Special Applications

The Aastra 630d is compliant with industry standard IP65 and can be used anywhere outdoors or in production areas due to its high dust and water-jet resistance.

It also meets the highest hygiene standards and so is also ideally suited for medical environments.

It offers all the convenient features of Aastra 620d such as a large TFT display, Bluetooth and USB interface.

Its integrated man down alarm and the additional emergency button make the 630d ideal for use in security, law enforcement and for care establishments.



**The range of functions is restricted with SIP-DECT.*

Comfort device
Industrial device
Display Elements
Indicator LED
Display
Backlit display
Illuminated key module
Operating Controls
Navigation key
Foxkey
Configurable keys
Hotkey
Features
No-movement alarm
Man-down alarm
Call preparation
Name dialling
Suppression of call number display
Call waiting
Brokering
Call list
Last number redial
Entries in private telephone directory
Access to central phone book
Discreet call
Open listening
Hands-free operation
Conference call
Voicemail
Send/receive text messages
Private call with PIN
Phone lock
Vibra call
GAP mode
Protection class
Optional Connections
Headset
Operating Data
Standby time standard / power battery
Talk time standard / power battery

	610d	620d	630d
	•	•	
			•
	•	•	•
	LC Display (2", 176x160 pixels, monochrome)	TFT colour display (2", 176 x 220 pixels, 65,536 colours)	TFT colour display (2", 176 x 220 pixels, 65,536 colours)
	•	•	•
	•	•	•
	•	•	•
	•	•	•
		3	3
	1 (6 entries)	1 (6 entries)	1 (6 entries)
			•
			•
	•	•	•
	•	•	•
	•	•	•
	•	•	•
	•	•	•
	10	10	10
	10	10	10
	350	350	350
	•	•	•
	•	•	•
	•	•	•
	•	•	•
	•	•	•
	•	•	•
	•	•	•
	•	•	•
	•	•	•
	•	•	•
	•	•	•
	•	•	•
	IP50	IP50	IP65
	•	•	•
	100 h/– 12 h/–	120 hr/200 hr 12 hr/24 hr	120 hr/200 hr 12 hr/24 hr

System Management

A modern communication system is distinguished by its excellent adaptability. All Aastra 400 systems are planned, designed, configured, expanded and monitored using the Aastra 400 Management Suite. With this, you and your customers can rest assured that your settings are fully in keeping with state-of-the-art technology, will always function flawlessly and can be quickly and easily maintained wherever you are.

Aastra Management Suite: Getting the Best out of the System

The Aastra Management Suite (AMS) software package includes several integrated system management functions. These can be used by the installer to configure the system offline, online, directly on site or remotely – via a SIP, ISDN or analogue trunk line.

AMS enables the configuration of systems and complex network structures. Settings can also be carried out just as easily on several terminals at the same time, even during operation. An additional advantage is that individually created installation profiles can be stored and later transferred to a different terminal.

The system software is also easy to upgrade. The software is checked before commissioning to make sure it has the up-to-date information needed.





Web-Based Administration for Easy Management of Single Systems

Configuring and starting up individual systems is even easier, using the web-based assistant integrated into the communication servers for the Aastra 400 series. Without the training usually required, systems can be managed quickly, securely and network access, user and terminal devices and functions can be set up. All that is needed is a PC with a web browser.

Easy Application Management

The Aastra 470 system offers, as an additional extra, an integrated application server on which all applications (including CTI, UCC, call center and PC operator console) are already installed. The entire communication solution is provided in a box, and no additional server needs to be integrated into the client's IT infrastructure. Application management is also integrated with the web-based Aastra 470 system administration. This saves on installation, management, maintenance time and cost.



About Aastra

Aastra Technologies Limited (TSX: "AAH"), is a leading company at the forefront of the enterprise communication market. Headquartered in Concord, Ontario, Canada, Aastra develops and delivers innovative communications products and applications for businesses. Aastra's operations are truly global with more than 50 million installed lines around the world and a direct and indirect presence in more than 100 countries. Aastra is entirely dedicated to enterprise communications and offers one of the most complete portfolios of unified communications solutions individually tailored to satisfy its customers' requirements. These range from feature-rich call managers for small and medium businesses and highly scalable ones for large enterprises, integrated mobility, call centers solutions to a wide selection of terminals. With a strong focus on open standards, Aastra enables enterprises to communicate and collaborate more efficiently.

For additional information on Aastra, visit our website at: www.aastra.com

